

**TITLE OF INVENTION**

PROCESS FOR MAKING

POLYTETRAFLUOROETHYLENE MOLDED ARTICLES

5 COATED WITH FUSED FLUOROPOLYMER RESIN

**ABSTRACT OF THE DISCLOSURE**

The present invention relates to a molded article of  
polytetrafluoroethylene or modified polytetrafluoroethylene having a fluoropolymer  
resin coating, the coating comprising a heat-flowable tetrafluoroethylene copolymer  
10 wherein the surface of the coated article has a reduced roughness compared to the  
molded article prior to coating. The coating for the molded article is preferably a  
fused powder, most preferably formed by electrostatically applying a fluoropolymer  
powder resin to the molded PTFE article. In a preferred embodiment, the  
fluoropolymer powder resin comprises a mixture of heat-flowable tetrafluoroethylene  
15 copolymer powder and a polytetrafluoroethylene that has a temperature of  
crystallization of at least 305°C and a heat of crystallization of at least 50J/g. The  
surfaces of the articles are smoother than the original articles so that they resist  
adhesion of chemical contaminants and have applicability for chemical containers and  
transport pipes in the rigorously clean environment of the semiconductor industry.